

PTO/SB/08A

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	10/608,101
Filing Date	June 27, 2003
Confirmation Number	8072
First Named Inventor	John Ng et al.
Group Art Unit	1626
Examiner Name	Taofiq A. Solola

Sheet 1 of 5 Attorney Docket No. PHA 4199.1

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
YD	1	3,053,856	B1	Payne et al.	09/11/1962
	2	3,200,113	B1	Christiansen et al.	08/10/1965
	3	3,300,489	B1	Holden	01/24/1967
	4	3,413,288	B1	Creger	11/26/1968
	5	3,759,791	B1	Marsheck	09/18/1973
	6	3,897,417	B1	Warnant et al.	07/29/1975
	7	3,972,878	B1	Schimann et al.	08/03/1976
	8	4,069,219	B1	Weier	01/17/1978
	9	4,118,488	B1	Philippson et al.	10/03/1978
	10	4,270,994	B1	Behling	06/02/1981
	11	4,559,332	B1	Grob et al.	12/17/1985
	12	5,565,558	B1	Batist et al.	10/15/1996
✓	13	5,616,742	B1	Fu et al.	04/01/1997

Examiner Signature	T. A. Solola	Date Considered	3-7-05
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		Office	Number ⁴	Kind Code ² (if known)			
Y0	14	DE	2349022		Furst, Andor et al.	04/10/1975	
	15	DE	2404947		Roussel-Uclaf	08/08/1974	
	16	DE	2443746		Searle & Co.	03/03/1975	
	17	DE	2932925		Gist Brocades NV	02/28/1980	
	18	EP	0122232	A1	Ciba Geigy Corp (US)	10/17/1984	
	19	EP	0123734	A1	Gist Brocades NV (NL)	11/07/1984	
	20	EP	0165902	A1	Ciba Geigy Corp (US)	12/27/1985	
✓	21	WO	97/21720		Searle & Co.	06/19/1997	

OTHER ART - NON PATENT LITERATURE DOCUMENTS						
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Y0	22	ABSTRACT 084228, "Hydroxylated Androstane Production From Sterols", Chemical Abstracts, Vol. 100, No. 11, p. 430, March 12, 1984 and JP 58 179 498 A (Danippon Ink and Chemicals, Inc.); Japan, October 20, 1983 ✓				
✓	23	ARIAS et al., "Epoxidation of Alkenes With Trichloroacetonitrile/Hydrogen Peroxide In A Neutral Biplastic Solvent System", J. Org. Chem., Vol 48, pp. 888-890, 1983 ✓				

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Y O	24	BROWN et al., "Steroidal Aldosterone Blockers VII", J. Med. Chem., 1963, Vol. 6, pp. 732-735			
	25	BROWN et al., "Steroidal Aldosterone Blockers III", J. Org. Chem., 1960, Vol. 25, No. 1, pp. 96-99			
	26	CARRUTHERS et al., "Synthesis of Corticoids From 9 α -Hydroxyandrost-4-ene-8, 17-dione", J. Org. Chem., Vol. 57, pp. 961-965, 1992			
	27	CHRISTIANSEN et al., "The Reaction of Steroidal 4,6-dien-3-ones with Cyanide", Steroids, Volume 1, Number 6, pp. 620-627, 1963.			
	28	Database WPI, Section Ch, Week 8145, Derwent Publications, Ltd., London, GB; Class B01, AN 81-82258D and JP 56 120 697 A (Mitsubishi Chem. Ind. Ltd.), September 22, 1981			
	29	DEGASPARO et al., "Antialdosterones: Incidence And Prevention Of Sexual Side Effects", J. Steroid Biochem, Vol. 32, No. 13, pp. 223-227, 1989			
	30	DEGASPARO et al., "Three New Epoxy-Spirolactone Derivatives: Characterization in Vivo and in Vitro", J. Pharmacol. and Expt. Ther., Vol. 240, No. 2, pp. 650-656, 1987			
	31	DESHAYES "Utilisation De Modèles Mathématiques Pour l'optimisation En Fermentation. Applicatoins Aux Transformations Par Les Micro-organismes", Bulletin De La Societe Chimique De France 2 Partie - Chimie Organique, Biochimie, No. 1-2, pp. 24-34, May 18, 1979			
	32	GABRIEL "Condensationsprodukte aus Phtalsaureanhydrid", Ber., pp. 1389-1396, 1884			
	33	GROB et al., "Steroidal, Aldosterone Antagonists. Increased Selectivity of 9 α , 11-Epoxy Derivatives", Helv. Chim. Acta, Vol. 80, No. 2, pp. 566-585, March 24, 1977			
	34	HELLBERG et al. "5 α -Hydroxy-3 α -Cholestanecarboxylic Lactone", Chem. Abst., Vol. 99, No. 11, p. 595, September 12, 1983			
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Y0	35	NAGATA et al., "Angular-Substituted Polycyclic Compounds. I. Cyanation of Δ -Cholesten-3-one", J. Org. Chem., Volume 26, pp. 2413-2420, 1961	
	36	NAGATA et al, "Hydrocyanation, VI. Application Of The New Hydrocyanation Methods To Conjugate Hydrocyanation Of α,β -Unsaturated Ketones, Conjugated Dienones, And Conjugated Enamines And To Preparation of α -Cyanohydrins", J.A.C.S., Vol. 94:13, pp. 4654-4672, 1972	
	37	NICKISCH et al., "Aldosterone Antagonists.3.Synthesis and Activities of Steroidal 7 α -(Alkoxy carbonyl)-15,16-Methylene Methylene Spirolactones", J. Med. Chem., Vol. 33, No. 2, pp. 509-513, February 1990	
	38	OGATA et al., "The Alkali Phosphate-Catalyzed Epoxidation And Oxidation By A Mixture of Nitrile And Hydrogen Peroxide", Tetrahedron, Vol. 20, pp. 2065-2068, 1964	
	39	OGATA et al., "The Kinetics Of The Phosphate/Catalyzed Epoxidation Of Styrenes With A Mixture of Nitrile & Hydrogen Peroxide", Bull. Chem. Soc. Of Japan, Vol. 38, No. 2, pp. 194-199, 1965	
	40	PAYNE et al., "Reactions of Hydrogen Peroxide. VII. AlkaliCatalyzed Epoxidation and Oxidation Using a Nitrile As Coreactant", J. Org. Chem., Vol. 26, pp. 659-663, 1961	
	41	PCT Search Report Issued for PCT/US 96/20780 dated 9/22/97	
	42	PETERSON et al., "Microbiological Transformations of Steroids. VI.Preparation of 11x-Hydroxy-6-dehydroprogesterone", J.A.C.S., Vol. 75, No. 2, pp. 419-421, January 29, 1953	
✓	43	TURNER et al., "Applications Of High-potential Quinones. Part I. The Mechanism Of Dehydrogenation Of Steroidal Ketones By 2,3 Dichloro-5,6-dicyanobenzoquinone", J. Chem. Soc., pp. 1720-1730, 1967	

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✓O	44	VAN LEUSEN et al., "Chemistry of Sulfonimidyl Isocyanides. 33. Synthesis of 17-(isocyanatosylmethylene) Steroids: Precursors To Pregnane Derivatives" <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , Vol. 100, No. 10, pp. 393-401, October 1991 ✓		
✓	45	WEIR et al., "7 α -Carboalkoxy Steroidal Spirolactones As Aldosterone Antagonists", <i>J. Med. Chem.</i> , Vol. 18, No. 8, pp. 817-821, August 1975 ✓		

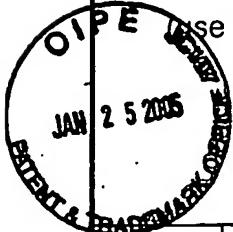
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YD	46	2,602,769		Murray et al.	07-08-1952

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YD	47	Chemical Abstracts "Martinkova et al., "Production of 16.alpha., 17.alpha.-epoxy-16-methylpregn-4,6-dien-11.alpha.-01-3,20-dione" Abstract No. 1969.46189 (3/15/68)			
✓	48	European Search Report for analogous application No. EP01122428 dated October 21, 2004.			

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